

NAD SERVICE MANUAL

1240
STEREO PREAMPLIFIER

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-1240-

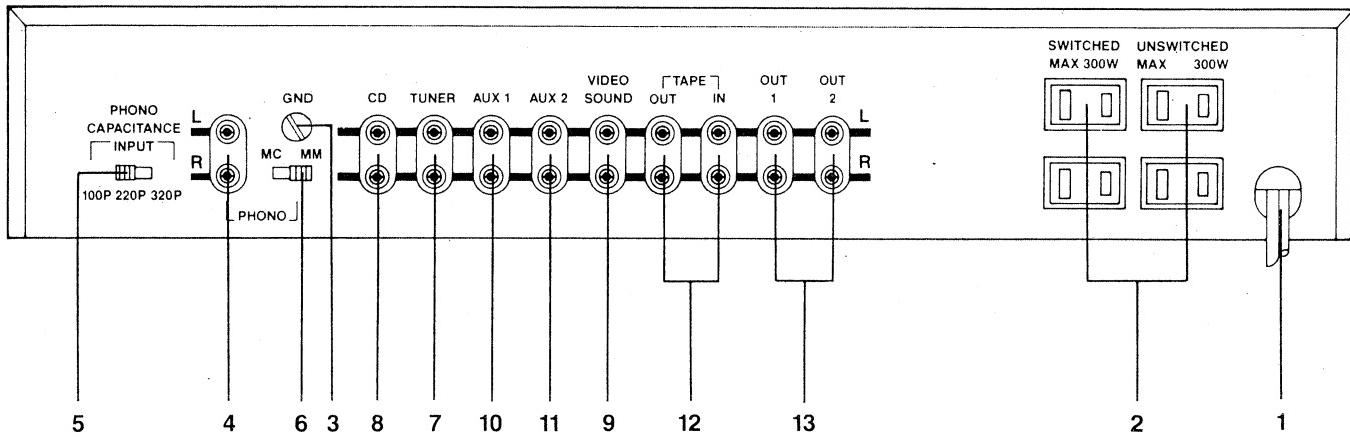
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REAR PANEL

1. AC Line Cord.
2. AC Outlets (not in U.K. version).
3. Phono Ground.
4. Phono Input.
5. Phono Capacitance.
6. MM/MC Selector.
7. Tuner Input.
8. CD Input.
9. Video Sound Input.
10. Auxiliary 1 Input.
11. Auxiliary 2 Input.
12. Tape Input/Output.
13. Preampl Outputs (2).

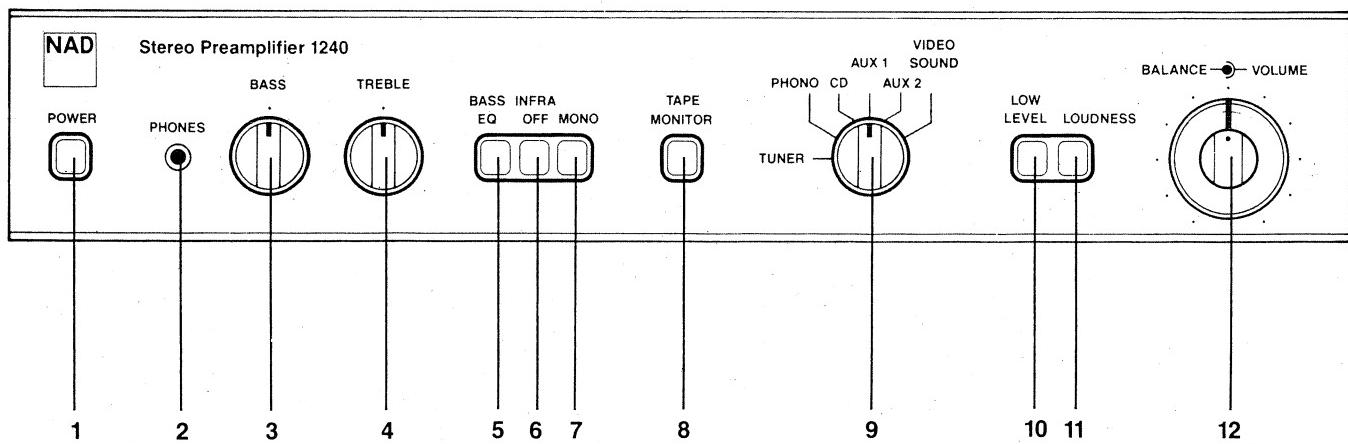
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE
THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE
COVER OR BACK.
NO USER-SERVICEABLE
PARTS INSIDE. REFER
SERVICING TO QUALIFIED
SERVICE PERSONNEL



FRONT PANEL

1. Power.
2. Phones.
3. Bass.
4. Treble.
5. Bass EQ.
6. Infrasonic Filter Off.
7. Mono.
8. Tape Monitor.
9. Input Selector.
10. Low Level.
11. Loudness.
12. Volume/Balance.



Specifications

NAD 1240 Stereo PreAmplifier

Note: Specifications are measured in accordance with EIA Standard RS-490 (IHF A-202). Measurements referred to the Normal output. Output level are 13 dB higher at the High output; for this output, divide the normal input sensitivity by 4.6.

Phono Input

Input Impedance (MM or MC)

R=47 Kohm
C=100/226/320 pF

Input Sensitivity

(1 KHz, 0.5V out)

MM 1.5 mV
MC 100uV

Input Overload at

20Hz/1KHz/20KHz

MM 20/180/1500 mV
MC 1.5/13/110 mV

Signal/Noise ratio,

IHF A-weighted, with
cartridge connected

MM 85 dB re 5 mV
MC 75 dB re 0.5 mV

THD (20Hz-20KHz) and

IM Distortion at +30 dB level

<0.04 %

RIAA response accurate

±0.5 dB

Line Level Inputs (Tuner, Type, CD, Video)

Input Impedance

R=15 Kohm

C=100 pF

90 mV

>10 V

0.01 %

96 dB re 0.5V out

Frequency Response

20Hz-20KHz ±0.5 dB

Outputs

Output Impedance

Tape (REC)

Source Z + 1000 ohms

Normal 800 ohm

High 150 ohm

Phones 100 ohm (will drive all
headphone impedances)

Maximum Output Level

Tape (REC)

9 V

Normal 9 V

High/Phones 13V into 50 Kohm load

9V into 600 ohm

300mV into 8 ohm

Controls

Treble ±7 dB at 10 kHz

Bass ±9.5 dB at 50 Hz

Bass Equalization +2 dB at 70 Hz,

+5 dB at 40 Hz

Infrasonic Filter -3 dB at 9 Hz, 12 dB/octave

Low Level (audio muting) -20 dB ±1 dB

Physical Specifications

Width x Height x Depth

42cm.x 7.62cm.x 26cm.

6.5in.x 3in.x 10.25in.

4.25kg (9lb. 6oz.)

4.7 kg (10lb. 5oz.)

50/60 Hz at 110, 120,

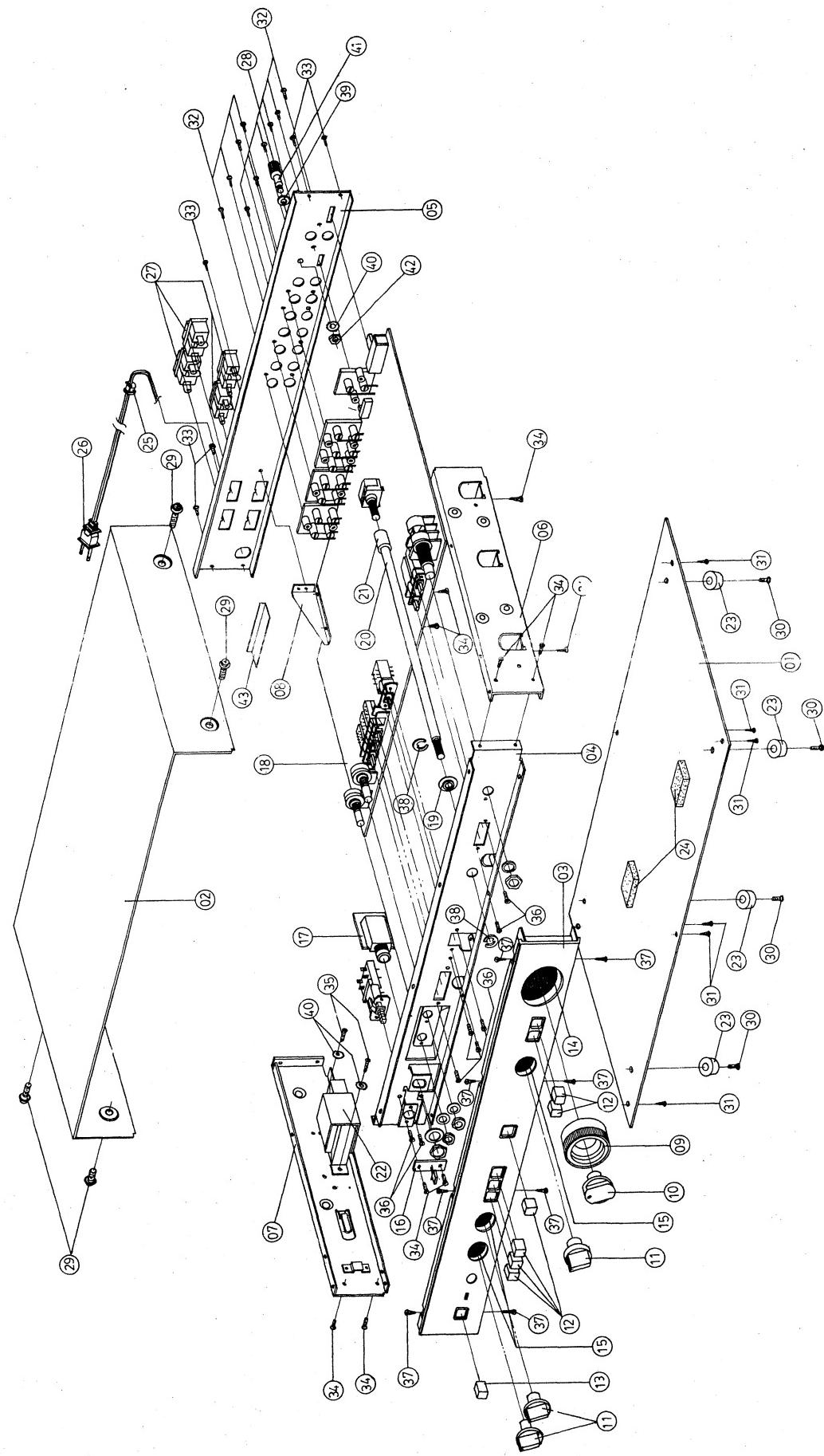
20, or 240 VAC

17 W

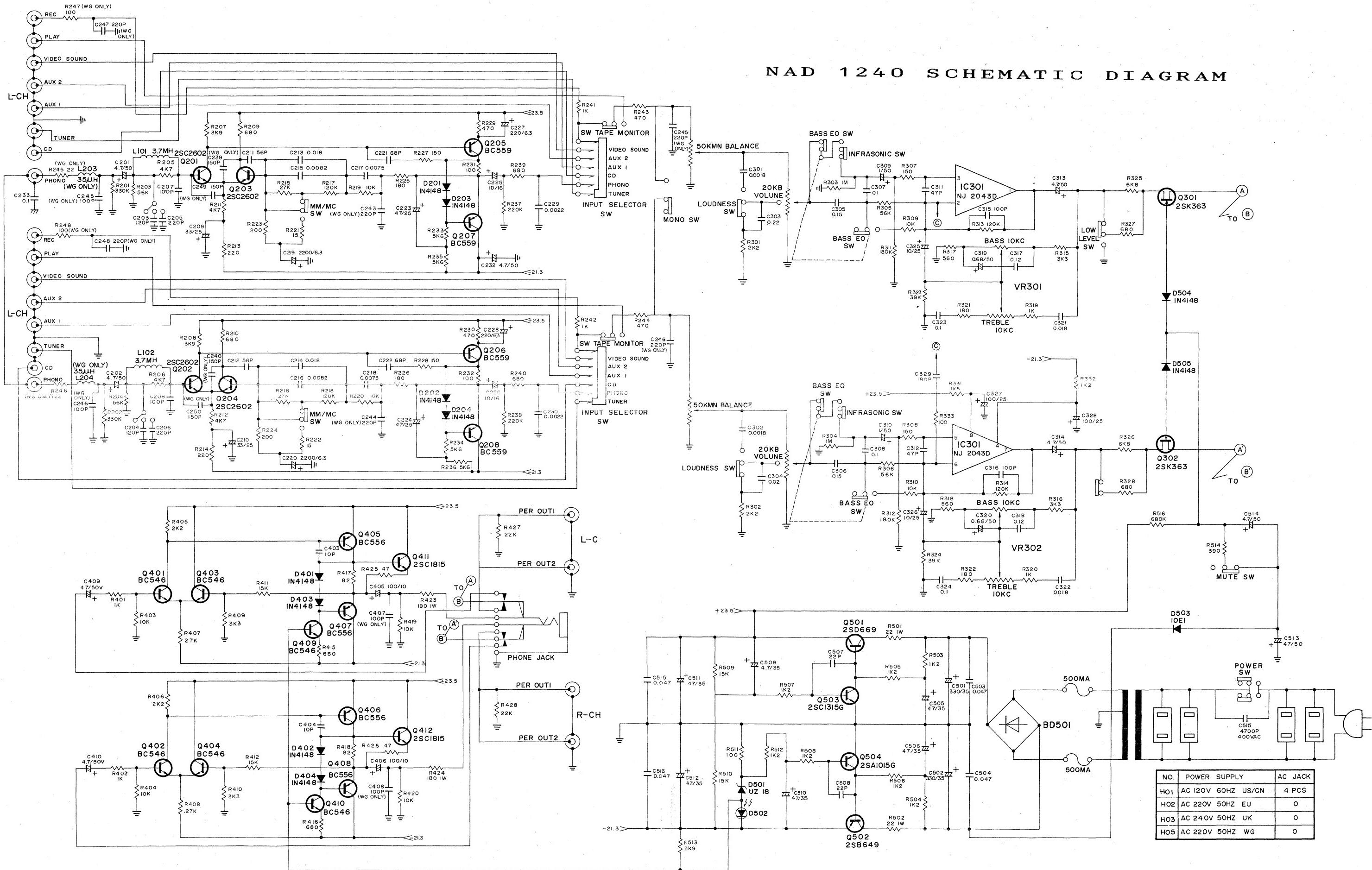
EXPLODED LIST

ITEM, PARTS NUMBER	DESCRIPTION	SPECIALITY	Q'TY
1 L580B004H01	CABINET-BOTTOM		1
2 L561B006H01	CABINET		1
3 L702A016H02	PANEL-FRONT		1
4 L547B009H01	CHASSIS FRONT SUB		1
5 L582B003H05	COVER-BACK		1
6 L547B008H01	FRAME (R)		1
7 L547B007H01	FRAME (L)		1
8 L541D089H01	BRACK, PCB SUPPORT		1
9 L704D062H01	KNOB-VOLUME		1
10 L704D065H01	KNOB-BALANCE		1
11 L704D064H01	KNOB-ROTTARY		3
12 L704D061H01	KNOB-PUSH		6
13 L704D061H02	KNOB-POWER		1
14 L550D037H02	FELT RING		1
15 L550D037H01	FELT RING		3
16 L241A066H13	PCB-MAIN	LED	1
17 L241A066H12	PCB-MAIN	HEADPHONE	1
18 L241A066H01	PCB-MAIN	(PRE AMP)	1
19 L550D036H01	GUIDE SHAFT		1
20 L531D017H02	SHAFT ROTARY		1
21 L562D022H01	SLEEVE, INPUT SELECTOR SW		1
22 L350Y078H01	TRANS-POWER	A2	1
22 L350Y049H01	TRANS-POWER	A1	1
22 L350Y050H01	TRANS-POWER	A	1
22 L350Y051H01	TRANS-POWER	B, B1	1
22 L350Y052H01	TRANS-POWER	C1, C, C2	1
22 L350Y053H01	TRANS-POWER	C3	1
23 L771D006H01	FOOT RUBBER, 12-1543		4
24 L552D015H01	CUSHION SPONGE		2
25 L540D501H01	CLAMPER		1
26 L242Y501H01	POWER-CORD	A1, A	1
26 U242C872H06	POWER-CORD	B	1
26 U242C809H19	POWER-CORD	C2, C1, C	1
26 L242Y013H01	POWER-CORD	B1	1
26 L242C310H01	POWER-CORD	C3	1
27 L449Y002H02	AC SOCKET		4
28 L531D018H01	SHAFT-GND, 3020		1
29 L650D005H02	SCREW-B, M4X5		4
30 U650S025H31	SCREW-P	M4*10	4
31 U656S263H23	T-SCREW	2-3*6	6
32 U656S164H24	T-SCREW	1-3*8	10
33 U656S164H24	T-SCREW	1-3*8	5
34 U656S263H23	T-SCREW	2-3*6	10
35 U669S074H09	SCREW-METAL	TRANS FIX, 3*5	2
36 U650S063H19	SCREW-B	M3*6	8
37 U656S164H23	T-SCREW	1-3*6	8
38 U685S100H08	E-RING	5	2
39 L683D011H01	WASHER POST		1
40 U680S322H03	WASHER TOOTHED 3		3
41 L670D004H01	NUT, 3020	M3.5	1
42 L670D002H01	NUT-GND, 3020		1
43 L840D009H01	COVER AC SOCKET	A, A1, C2, C3	1

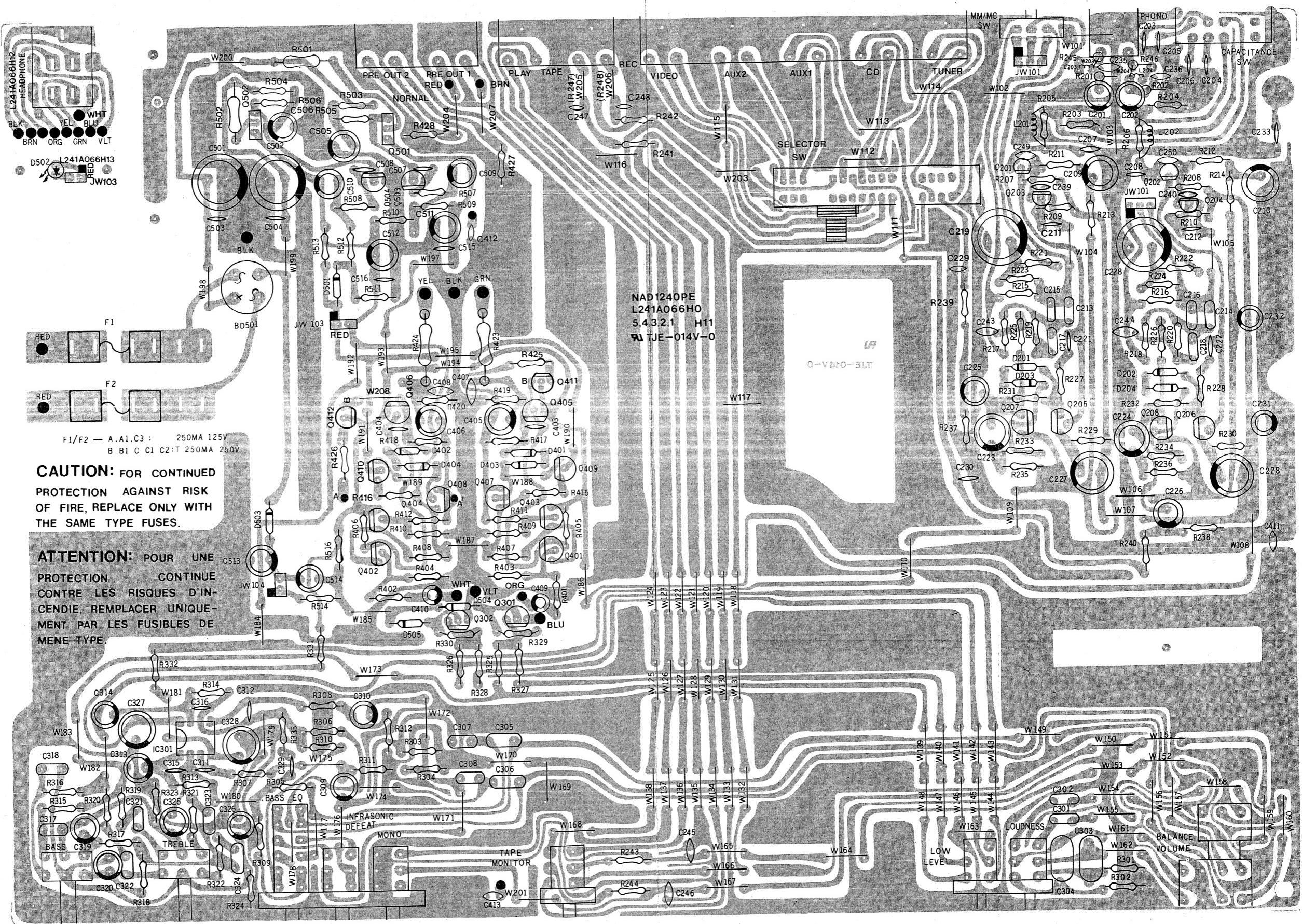
EXPLODED VIEW



NAD 1240 SCHEMATIC DIAGRAM



NAD 1240 PCB COMPONENT LOCATION



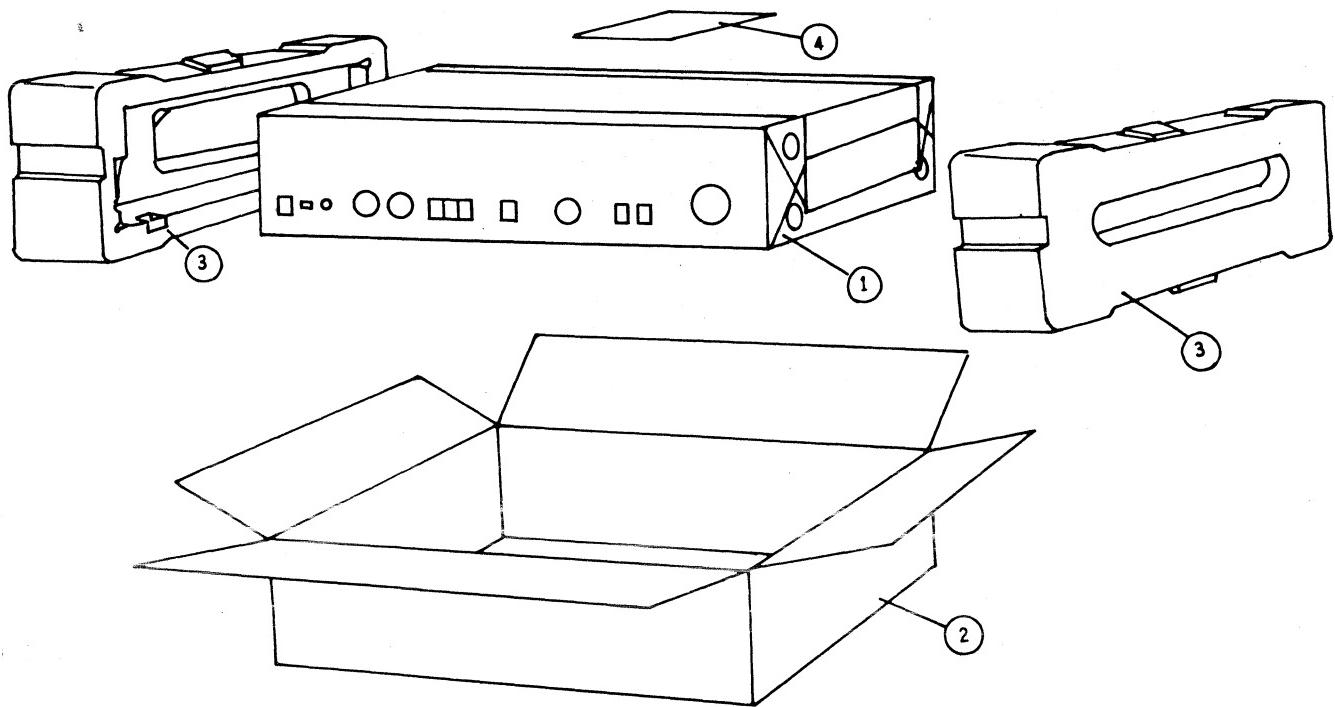
NAD 1240PE PARTS LIST

PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY
L656S263H23	T-SCREW	2-3*6	2
L541D089H01	ANGLE-PCB	250MA-UL	1
U283S017H04	FUSE	250MA-SEMKO	2
U283S022H27	BAND	SW-SLIDE, CAPACITANCE	6
U838S101H01	SW-SLIDE, MM/MC	SW-SELECT, CD/PHONE/TV/VIDEO/AUX1/AUX2	1
L431Y021H01	SW-SLIDE, MM/MC	SW-SLIDE, MM/MC	1
L431Y012H01	SW-PUSH, LOW LEVEL LOUDNESS	10K	1
L432Y028H01	SW, TAPE-MONITOR	20KB+50KMN	1
L432Y056H01	SW, MONO/INF/BASS	BLK	1
L4326045H01	SW, MONO/INF/BASS	VR301 VR302	1
L121Y010H01	AUX1/AUX2/PLAY	LEAD C412-CHASSIS	1
L121Y011H01	VR201	LEAD C413-CHASSIS	1
L44C530H04	PHONO, JACK-RCA	LEAD C412-CHASSIS	1
L44Y016H01	TUNER/CD/VIDEO/REC/QUY1/OUT2	CARBON, R211, R222	1
L4406018H01	AUX1/AUX2/PLAY	CARBON, R211, R222	1
L243C530H07	LEAD C412-CHASSIS	CARBON, R211, R222	1
L103Y214H02	R417 R418	1/4W 15-J	2
L103Y214H07	R231 R322 R333 R511	1/4W 82-J	2
L103Y214H09	R227 R228 R307 R308	1/4W 100-J	4
L103Y214H09	R227 R228 R307 R308	1/4W 150-J	4
L103Y214H10	R225 R226 R321 R322	1/4W 180-J	4
L103Y214H08	R223 R224	1/4W 200-G	2
L103Y214H11	R213 R214	1/4W 220-J	2
L103Y214H14	R514	1/4W 390-	1
L103Y214H15	R229 R320 R243 R244	1/4W 470-J	4
L103Y214H09	R217 R228 R307 R308	1/4W 560-J	2
L103Y214H16	R317 R318	1/4W 680-J	6
L103Y214H17	R209, 21.0, 239, 240, 327, 328	1/4W 680-J	2
L103Y214H17	R415 R416	1/4W 1K-J	6
L103Y214H19	R241, 242, 319, 320, 401, 402	1/4W 1.2K-J	2
L103Y214H20	R507 R508	1/4W 1.2K-J	2
L103Y214H20	R512 R3332	1/4W 1.2K-J	2
L103Y214H21	R331	1/4W 1.5K-J	1
L103Y214H23	R301 R302 R405 R406	1/4W 2.2K-J	4
L103Y214H25	R315 R316 R409 R410	1/4W 3K-J	4
L103Y214H26	R207 R208 R513	1/4W 3.9K-J	3
L103Y214H27	R211 R212	1/4W 4.7K-J	2
L103Y214H28	R233 R234 R235 R236	1/4W 5.6K-J	4
L103Y214H29	R325 R326	1/4W 6.8K-J	2
L103Y214H31	R309 R310	1/4W 10K-	2
L103Y214H31	R403 R404 R419 R420	1/4W 10K-J	4
L103Y216H49	R219 R220	1/4W 10K-	2
L103Y214H33	R411 R412 R590 R510	1/4W 15K-J	4
L103Y214H36	R407 R408	1/4W 27K-J	2
L103Y216H59	R215 R216	1/4W 39K-J	1
L103Y214H38	R323	1/4W 56K-J	4
L103Y214H40	R203 R204 R305 R306	1/4W 56K-J	4

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PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY	PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY	PARTS NUMBER	DESCRIPTION	SPECIALTY	Q'TY
L851D070H01	COLOR CODE TAG	1		L103Y214H44	R313 R314	1/4W 120K	2	L172Y002H15	C303 C304	0.4W 224J	2
L84D009H01	COVER-AC SOCKET	1		L103Y216H75	R217 R218	1/4W 120K	2	L182S022H07	C-ELECT, C290 C220	0.3V 2200	2
L242Y501H01	POWER-CORD	1		L103Y214H46	R311 R312	1/4W 180K-J	1	U182S022H63	C409 C410 C201 C202	50V 4.7	4
U242C872H06		1		L103Y214H47	R237 R238	1/4W 220K-J	2	U182S022H51	C501 C502	35V 330	2
U242C809H19	POWER-CORD	1		L103Y203H11	R303 R304	C-CERAMIC, C403 C404	50V 10D	L180Y022H51	C307 C308 C323 C324	50V 101J	1
L242C310H01	FRAME-L	4		L140Y203H19	C507 C208	C315 C316	50V 101J	L172Y002H25	C203 C204	50V 121J	2
U242C809H19	AC-SOCKET	3		L140Y203H27	C311 C312	50V 47J	2	L172Y002H27	C312 C212	50V 56J	2
L243C091H10	BRN, L-L*2 R-R*2 L-R*1	LEAD	5	L140Y203H29	C211 C221	50V 68J	2	L172Y002H31	C221 C222	50V 104J	2
L449Y002H02	WASHER-TOOCHED	TRANS FIX, 3*5	2	L140Y203H31	C227 C228	50V 181K	1	L172Y002H35	C323 C324 C313 C314	50V 182J	1
L242C310H01	SCREW-METAL	1		L140Y203H33	C229 C230	50V 222J	2	L172Y002H37	C329 C504 C515 C516	50V 183J	4
L669S074H09	CONNECTOR-SHAFT	1		L140Y203H35	C230 C231	50V 104J	4	L172Y002H39	C330 C331 C332 C333	50V 124J	2
L350Y078H01	TRANS-POWER, A2	1		L140Y203H37	C331 C332	50V 104K	1	L172Y002H41	C332 C333 C334	50V 182J	1
L350Y049H01	TRANS-POWER, A1	1		L140Y203H39	C333 C334	50V 104K	1	L172Y002H43	C334 C335 C336 C337	50V 183J	4
L350Y050H01	TRANS-POWER	1		L140Y203H41	C335 C336	50V 104K	1	L172Y002H45	C335 C336 C337 C338	50V 184J	4
L350Y051H01	TRANS-POWER	1		L140Y203H43	C336 C337	50V 104K	1	L172Y002H47	C337 C338 C339 C340	50V 185J	4
L350Y052H01	TRANS-POWER	1		L140Y203H45	C337 C338	50V 104K	1	L172Y002H49	C338 C339 C340 C341	50V 186J	4
L350Y053H01	TRANS-POWER	1		L140Y203H47	C338 C339	50V 104K	1	L172Y002H51	C339 C340 C341 C342	50V 187J	4
L547B009H02	CHASSIS-MAIN	1		L140Y203H49	C339 C340	50V 104K	1	L172Y002H53	C341 C342 C343 C344	50V 188J	4
L550D036H01	SHAFT-ROTARY	1		L140Y203H51	C341 C342	50V 104K	1	L172Y002H55	C342 C343 C344 C345	50V 189J	4
L526D022H01	GUIDE-SHAFT	1		L140Y203H53	C343 C344	50V 104K	1	L172Y002H57	C343 C344 C345 C346	50V 190J	2
L550D037H01	CONNECTOR-SHAFT	3		L140Y203H55	C344 C345	50V 104K	1	L172Y002H59	C344 C345 C346 C347	50V 191J	2
L550D037H02	FELT RING	1		L140Y203H57	C345 C346	50V 104K	1	L172Y002H61	C345 C346 C347 C348	50V 192J	2
U685S100H08	E-RING	5		L140Y203H59	C346 C347	50V 104K	1	L172Y002H63	C346 C347 C348 C349	50V 193J	2
U650S063H19	SCREW-B, SW*8	M3*6	8	L140Y203H61	C347 C348	50V 104K	1	L172Y002H65	C347 C348 C349 C350	50V 194J	2
L565S263H23	T-SCREW	2-3*6	6	L140Y203H63	C348 C349	50V 104K	1	L172Y002H67	C348 C349 C350 C351	50V 195J	2
L432Y035H01	SW-POWER	1		L140Y203H65	C349 C350	50V 104K	1	L172Y002H69	C349 C350 C351 C352	50V 196J	2
L532Y034H01	C-CERAMIC, C517	400V 472M	1	L140Y203H67	C350 C351	50V 104K	1	L172Y002H71	C351 C352 C353 C354	50V 197J	2
L140Y007H07	LEAD POWER SW	ORG	1	L140Y203H69	C351 C352	50V 104K	1	L172Y002H73	C352 C353 C354 C355	50V 198J	2
L243C083H24	POWER SW	BLU	1	L140Y203H71	C352 C353	50V 104K	1	L172Y002H75	C353 C354 C355 C356	50V 199J	2
L580B004H01	CABINET-BOTTOM	1		L140Y203H73	C353 C354	50V 104K	1	L172Y002H77	C354 C355 C356 C357	50V 200J	2
L840D010H01	COVER-FVC	1		L140Y203H75	C354 C355	50V 104K	1	L172Y002H79	C355 C356 C357 C358	50V 201J	2
L851D071H01	LABEL-WARNING	1		L140Y203H77	C355 C356	50V 104K	1	L172Y002H81	C356 C357 C358 C359	50V 202J	2
L771D006H01	FOOT RUBBER,										

PACKING DIAGRAM



PACKING LIST FOR NAD-1240

ITEM	PARTS NO.	NAME	Q'TY
1	L871B003H77	OWNER'S MANUAL	1
2	L831D003H01	PE BAG	1
3	L813A010H01	POLYLON	2
4	L800D004H03	GIFT BOX	1